

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

06 APR 2005

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
6 May 2004 (06.05.2004)

PCT

(10) International Publication Number
WO 2004/038891 A2

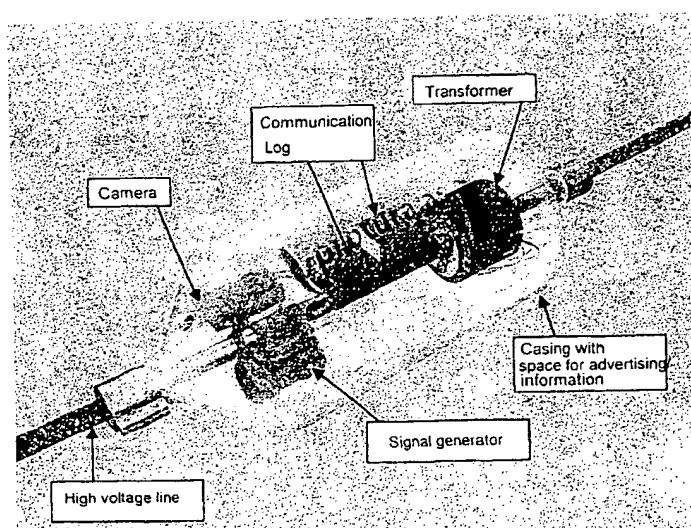
- (51) International Patent Classification⁷: **H02J 13/00**
- (21) International Application Number:
PCT/NO2003/000334
- (22) International Filing Date: 7 October 2003 (07.10.2003)
- (25) Filing Language: English
- (26) Publication Language: English
- (30) Priority Data:
20024833 7 October 2002 (07.10.2002) NO
- (71) Applicant (for all designated States except US): PRO-TURA AS [NO/NO]; Olav Brunborgs vei 4, N-1369 Billingstad (NO).
- (72) Inventor; and
- (75) Inventor/Applicant (for US only): **HANSEN, Roger** [NO/NO]; Olav Brunborgs vei 4, N-1369 Billingstad (NO).
- (74) Agent: BRYN AARFLOT AS; P.O. Box 449, Sentrum, N-0104 Oslo (NO).
- (81) Designated States (national): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
- (84) Designated States (regional): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

- without international search report and to be republished upon receipt of that report

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: MONITORING SYSTEM AND DEVICE FOR AN ELECTRIC POWER LINE NETWORK



WO 2004/038891 A2

(57) **Abstract:** A device is provided for monitoring an electric overhead line, which device is constituted by an independently operating real time multisensor for mounting in a position on a span of the overhead line. The device has a built-in transmitter for transmitting sensor signals to a remote central, and comprises a laser range finder for measuring distance to the ground beneath the overhead line, as well as a camera for visual inspection of the line and its surroundings. Further, there is provided a system for maintaining the operation of a power line network, based on remote-controlled shut-off of switches installed in special appliances, particularly electric hot water tanks, at the premises of small consumers/private households.

BEST AVAILABLE COPY

ATTACHMENT A